

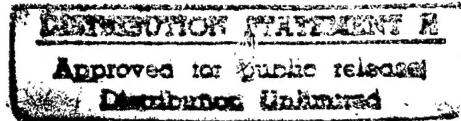
# ACCURATE AUTOMATION CORPORATION

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10 December 1996

Mr. Joe Johnson, COR  
Code: 7601  
4555 Overlook Avenue, SW  
Washington, DC 20375-5326



Dear Mr. Johnson:

**Monthly Status Report #1,#2:** High Fidelity Modeling and Imaging for Tactical and Strategic Applications  
**Contract N00014-95-C-2254**

## A. PROGRESS DURING THIS REPORTING PERIOD

During this reporting period we commenced the Phase II efforts by developing some of the key Real time Retargeting Concept of Operations (CONOPS) for tactical aircraft. A draft copy of the CONOPS for TACAIR was sent to Naval Strike & Air Warfare Center for their review and comment. Initial comments from NSARC were favorable and written documentation of their comments are due in December 96.

Visualization concepts to support Real Time Monitoring of the strike are under way with an initial prototype of a 2D view of the battle area and visualization of the key features to support a strike. 3D visualization concepts are underway with methodologies to view an entire strike including terrain modeling, and visualization of features such as Aircraft visualization of out of cockpit scenes has been developed with visualizations of surface threat locations and their static with regard to each individual aircraft defined by arrows and their colors, depicting their threat posture. For example, a SAM site where the site has locked on to the aircraft would shoot a red arrow at the SAM site, indicating that the aircrew must take immediate action to counter the threat.

## B. SUMMARY OF PROBLEMS OR CONCERNS

There are no significant problems or concerns at this time.

## C. SUFFICIENCY OF EFFORT TO ACHIEVE OBJECTIVES

We believe that our planned effort will reach our stated goals in an efficient and timely manner

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#### D. PLANS FOR THE NEXT REPORTING PERIOD

We are planning to develop the 2D visualization for the JFACC Anchor Desk concept and show the battle area with both friendly forces (i.e. aircraft and ships) and the enemy order of battle. The DTED DMA maps are planned to be used so that the visualization will support the development of the Launch Acceptability Region which is intended to show the launch envelop of the enemy's SAM system, taking into account the effects of the maximum range of the missile and the guidance radar, terrain and radar cross section of the aircraft in question.

#### E. SUMMARY OF COSTS TO DATE

As of Nov 30, 1996	Budgeted Amount	Cummulative Amount	Remaining Amount
	=====	=====	=====
Labor	145,228.00	10,275.90	134,952.10
Overhead	187,475.00	13,265.16	174,209.84
Consultants	29,184.00	1,406.00	27,778.00
Consult Overhead	16,760.00	807.47	15,952.53
Travel	34,027.00	1,178.34	32,848.66
Material	59,921.00	0.00	59,921.00
Sub - Augins	73,885.00	3,694.00	70,191.00
G&A	144,544.00	8,100.80	136,443.20
Profit 6.96%	48,196.00	2,699.32	45,496.68
	=====	=====	=====
	739,220.00	41,426.99	697,793.01
Labor Hours			
R. Akita		200	
A. Maren		36	
C. Cox		0	
Programmer		27	
Proj. Mgmt.		0	

Sincerely,  
**ACCURATE AUTOMATION CORPORATION**

*Richard Akita*

Richard Akita  
Principal Investigator